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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/733,602	12/11/2003	Francisco Rojo Lulic	870-003-166	7850	
4955	7590 11/17/2005		EXAMINER		
WARE FRESSOLA VAN DER SLUYS & ADOLPHSON, LLP			NGUYEN, TRAN N		
	GREEN BUILDING 5		ART UNIT PAPER NUMBER		
755 MAIN STREET, P O BOX 224 MONROE, CT 06468			2834		
MONROE,	01 00408		DATE MAILED: 11/17/2005	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/733,602 LULIC, FRANCISCO RO		ROJO			
Office Action Summary	Examiner	Art Unit				
·	Tran N. Nguyen	2834	(pu)			
The MAILING DATE of this communication ap			ss			
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be by within the statutory minimum of thirty (30) dwill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	timely filed ays will be considered timely, im the mailing date of this commu NED (35 U.S.C. § 133).	unication.			
Status						
1) Responsive to communication(s) filed on 11 (October 2005.					
2a) This action is FINAL . 2b) ⊠ Thi	s action is non-final.					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5)⊠ Claim(s) <u>1-8</u> is/are allowed. 6)⊠ Claim(s) <u>9</u> is/are rejected.					
6)⊠ Claim(s) <u>9</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9) The specification is objected to by the Examin	er.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the E	xaminer. Note the attached Office	e Action or form PTO-	152.			
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 119(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:		, , , , ,				
1. Certified copies of the priority documen	its have been received.					
2. Certified copies of the priority documen	its have been received in Applica	ation No				
3. Copies of the certified copies of the price	ority documents have been recei	ved in this National Sta	ige			
application from the International Burea	au (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a lis	t of the certified copies not receive	ved.				
Attachment(c)						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summa	rv (PTO-413)				
2) Notice of Praftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail	Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	5) Notice of Informal 6) Other:	Patent Application (PTO-15	2)			

Application/Control Number: 10/733,602

Art Unit: 2834

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1. Claim9 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Wrobel** (US 5,170,086) in view of **Wrobel Harada** et al (US 5,363,003).

Wrobel (figs 1-8c) discloses an internal-stator-external-rotor motor comprising:

an inner stator (3, 23) including a lamination stack (9) having a coating (13-14) at least partially covering the stator, wherein the inner stator (3, 23) being formed with an internal recess (unnumbered, figs 2-8c);

an external rotor (2);

a bearing support tube (8) having an inner side equipped with a bearing arrangement (5-6) for journaling said external rotor, and having an outer side to which said inner stator (3, 23) is secured;

an annular securing disk (24, 85) that is made of ferromagnetic material, particularly steel (col. 3 lines 41+) and arranged adjacent to the lamination stack (9) of

Art Unit: 2834

the stator; also, the disk is secured in said coating (13-14) of said lamination stack (9), wherein said disk (24, 85) (fig 3) having barbs (26, 83, 88), provided at the inner periphery (25), are extended into said internal recess of the inner stator (figs. 2, 4, 6, 8c), said barbs (26, 83, 88) are for engaging into said outer side of said bearing support tube (8).

Wrobel substantially discloses the claimed invention, except for the following:

(a) an outer surface of said bearing support tube is formed with a stop and, upon mounting of said inner stator onto said tube, said stator abuts against said stop and the external rotor motor further comprising fan blades formed on an outer periphery of said external rotor.

Harada, however, teaches an external-rotor fan motor (figs 1-5) having fan blades (33) wherein an outer surface of said bearing support tube (2) is formed with a stop (21) and, upon mounting of said inner stator lamination stack (7) onto said tube, said stator stack abuts against said stop (21) for the purpose of the stator (6) being reliably attached to the bearing support (2).

Thus, it would have been obvious to one skilled in the art at the time the invention was made to modify the external rotor motor with the bearing support structure having a stop upon mounting of said inner stator onto said tube, the stator abuts against said stop, as taught by Harada. Doing so would provide an abutment means to ensure the stator is reliably attached to the bearing support so that the bearing support tube also supporting the abutment of the stator thereon.

Furthermore, it would have been obvious to one skilled in the art at the time the invention was made to modify the external rotor motor with the fan blades so that the motor can be used as a fan motor, instead of a disk-drive motor as in Wrobel. Doing so would obvious as an engineering design choice of one of many suitable industrial applications of an external-rotor motor. Also, external-rotor motors being used as fan motors are well known in the art.

Suggestion: The applicant is suggested to incorporate the features of the **barb being** bend upward (as in fig 7 of the application) that would overcome the prior art refs and put the application in more favorable for allowance.

Art Unit: 2834

Allowable Subject Matter

Claims 1-8 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tran N. Nguyen whose telephone number is (571) 272-2030. The examiner can normally be reached on M-F 7:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571)-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tran N. Nguyen

Primary Examiner

Art Unit 2834